

### **LISTING OF CLAIMS**

The Listing of Claims will replace all prior versions, and listings, of claims in the above-identified application. Deleted matter is indicated by strikethrough or double brackets, and added matter is indicated by underlining.

#### **CLAIMS:**

1. (Currently Amended) A method for surface modification of oxide ceramics, comprising the steps of:  
doping a glass component to a surface of oxide ceramics; and  
carrying out heat treatment for the oxide ceramics and the glass component at 1000-1700° C for several seconds ~~[[or]]~~ to several hours.
- 2 (Currently Amended) The method according to claim 1, wherein the glass component has a thermal expansion coefficient smaller than the oxide ceramics.
3. (Currently Amended) The method according to claim 1, wherein the glass component ~~consists~~ is selected from a group consisting of MgO, ~~Al<sub>2</sub>O<sub>3</sub>~~ Al<sub>2</sub>O<sub>3</sub> and ~~SiO<sub>2</sub>~~ SiO<sub>2</sub> as principal components.
4. (Currently Amended) The method according to claim 1, wherein the oxide ceramics ~~is~~ to be are alumina ceramics, and subject to heat treatment at a temperature of 1500° C for 5-300 minutes.
5. (Currently Amended) The method according to claim 2, wherein the oxide ceramics ~~is~~ to be are alumina ceramics, and subject to heat treatment at a temperature of 1500° C for 5-300 minutes.

6. (Currently Amended) The method according to claim 3, wherein the oxide ceramics ~~is~~ are alumina ceramics, and subject to heat treatment at a temperature of 1500° C for 5-300 minutes.

7. (Currently Amended) The method according to claim 1, wherein the oxide ceramics ~~is~~ are zirconia ceramics, and subject to heat treatment at a temperature of 1450 ° C for 5-300 minutes.

8. (Currently Amended) The method according to claim 2, wherein the oxide ceramics ~~is~~ are zirconia ceramics, and subject to heat treatment at a temperature of 1450° C for 5-300 minutes.

9. (Currently Amended) The method according to claim 3, wherein the oxide ceramics ~~is~~ are zirconia ceramics, and subject to heat treatment at a temperature of 1450° C for 5-300 minutes.

10. (Withdrawn) Oxide ceramics of which surface is modified according to a method as claimed in claim 1.

11. (Withdrawn) Oxide ceramics of which surface is modified according to a method as claimed in claim 2.

12. (Withdrawn) Oxide ceramics of which surface is modified according to a method as claimed in claim 3.

13. (Withdrawn) Oxide ceramics of which surface is modified according to a method as claimed in claim 4.

14. (Withdrawn) Oxide ceramics of which surface is modified according to a method as

In re Application of: CHO et al.  
Application No.: 10/763,002

P28,765 USA//5652-102US  
Reply dated November 13, 2007  
In response to May 14, 2007 Office Action

claimed in claim 5.